

Personal Information

Name	Dr. K.Kavita
Years of Experience	Teaching: 17 Years
Email Id	kavitha.k@bvrithyderabad.edu.in
Areas of Specialization	Fluid Mechanics, STEM Education Theoyology, Educational dynamics



Educational Qualifications

Doctoral Degree	Ph.D.	Fluid Mechanics
PG Degree	M.Tech.	CSE
	M.Sc	Mathematics
	M.Phil	Mathematics
UG Degree	B.Sc & B.Ed	Mathematics,Physics,Chemistry

Books Publishes / Book Chapters / Monographs:

- Published a Book with title “The essential Guide in Fluid Mechanics”, Some studies on MHD non-Newtonian fluid flow with heat transfer ”ISSN/ ISBN No-978-620-2-09592-1, Publishers LAP LAMBERT ACADEMIC PUBLISHING in the A.Y:2017.
- Published a Book with title “Fundamental Engineering Mathematics”, ISBN NO: 978-81- 947377-8-0, Publishers AIB Saliha Publications, Tamil Nadu, India, in the A.Y:2020
- Published a Book with title “Fundamental Engineering Mathematics - II”, ISBN NO: 978-81-948141-0-8, Publishers AIB Saliha Publications, Tamil Nadu, India, in the A.Y:2020
- Published a book chapter with “ Smart and Eco Cites “ title of the book Industrial People Management-Volume - IV ,ISBN No : 978-81-947377-8-0 , Page numbers:127-129.

Patents Published :

S. No.	Faculty Name	Title of Patent	Filing Date	Published Date	Application Number	Patent link
1	Dr. K. Kavitha (Mathematics)	A Novel Nanosilver hand Rub sanitizer gel	30/08/2020	18/09/2020	202031037352	Intellectual Property India (ipindiaservices.gov.in)

	(Indian Patent)					
2	Dr. K. Kavitha (Mathematics) (Indian Patent)	Design of women health monitoring during pregnancy period and location tracking system during emergency situation using NFC tag synced with/without smart phone	18/11/2020	27/11/2020	202041050085	Intellectual Property India (ipindiaservice.gov.in)
3	Dr. K. Kavitha (Mathematics) (Australian Patent)	Corona recognition method based on visible light color using artificial intelligence- Australian Patent	03/06/2021	31/03/2021	2021103067	IP Australia: AusPat Search Results
4	Dr. K. Kavitha (Mathematics) (Indian Patent)	Design Patent & Published in Journal Journal No : 18/2022 Joournal Date:06/05/2022	Cbr date:26/07/2021 021	FER generated: 23/08/2021	346741-001 &cbr No: 205600	Design Application Status (ipindia.gov.in)
5	Dr. K. Kavitha (Mathematics) (Indian Patent)	E -Shop India -A Novel online shopping portal	Diary Number: 195.9/2020 01/12/2020	20/02/2021	Registration Number: L-99616/2021	

6	Dr. K. Kavitha (Mathematics) (Indian Patent)	System method for editing mathematical formula & method thereof	13/03/2022	15/04/2022	202231013643	Intellectual Property India (ipindiaservice.s.gov.in)
7	Dr. K. Kavitha (Mathematics) (Indian Patent)	A system for calculating binomial Mathematical expression method thereof	09/04/2022	22/04/2022	202241021363	Intellectual Property India (ipindiaservice.s.gov.in)
8	Dr. K. Kavitha (Mathematics) (Indian Patent)	Design Patent Cbr date:9/11/2020 Cbr number : 16265	Cbr date:9/11/2020 20		333094-001	Design Application Status (ipindia.gov.in)

Awards/ Fellowships:

Sl. No	Title	Duration / Year	Name of Agency Awarded/fellowship by	International / National/ State/ Univ. level	Res./Acad Score	Proof (Enclose & Page No.)
1	Teacher Innovation Award” from ZIIIEI		ZIIIEI (Zero investment innovation for education initiatives)	GOVT.OF.IN DIA(National)	5	Yes

2	GURUPNISHAD SAMMAN award	Sep-2019	fromCWSIR,Society Act-21,1860, Charles walters society for Innovation & Research in 2 nd Annual day. Sri Aurobindo Society on 30 th Sept 2019..	National	5	Yes
3	WOMEN VIGOR AWARD	2021	Awarded Intellectsonline which is there in FACEBOOK https://www.facebook.com/100699732067983/posts/135513895253233/?d=1	International	7	Yes
4	Women Researcher Award	Nov-2019	VDGood professional Association on 16 th and 17 th November 2019.	International	7	Yes
5	Outstanding Research Award	Dec-2019	Green Thinkerz society India on Dec- 2019.	International	5	Yes
6	Academic Leadership Award	Oct-18 http://www.iardo.com/album.php?slug=iardo-awards	IARDO(International Association Research & Development Organization)	International	7	Yes
7	Out Standing Faculty in Mathematics (https://www.vifa.info/2018/science/kavita.html)	July 7 th	"Kavita - Facts". Vifa.info. VIF Press 2018. Web. 18 July 2018.; http://vifa.info/2018/science/kavita.html	International	7	Yes
8	My Autobiography was included in "ASIAN ADMIRABLE ACHIEVERS" "in 2018, PAGE NUMBER 233	2018	Asian admirable achievers	National	5	Yes

Papers Published

International Journal Publications:

1. K.kavita,k.RamakrishnaPrasadPublishedapaperon“EffectsofMHD&HeattransferonanOscillators flow of Jeffrey Fluid in a tube” in International Journal of Dynamics of fluids, ISSN: 0973-1784, vol 8,

Number 1, 2011, pgnos: 1-10.

2. K.kavita,k.RamakrishnaPrasad,B.Arunakumara,A.MaheshBabu&P.ShantankumarPublishedapaper on “Effects of a Magnetic field on the mixed convective flow ofsecondgrade fluid in a vertical channel with permeable walls” in International Journal of Fluids of Engineering.ISSN: 0974-6—3138,Vol 4, Nov2, 2012, pgnos:91-104.
3. K.kavita, k.Ramakrishna Prasad & B.Aruna kumari published a paper on “Thermal Effects on MHD Stokes’s second problem for a couple stress fluid through a porous medium” in International Journal of Mathematical Archive. ISSN: 2229—5046, Vol 3, Julyl 7, 2012,pgnos:1-13.
4. K.kavita, k.Ramakrishna Prasad & B.Aruna kumari published a paper on “Slip effects on MHD oscillatoryFlowofJeffreyfluidinachannelwithheattransfer”inInternationalJournalofMathematical Archive. ISSN: 2229—5046, Vol 3, Aug,2012,pgnos:2893-2901.
5. K.kavita, k.Ramakrishna Prasad & B.Aruna kumari Published a paper on “Effects of Magnetic field onthefreeconvecti9veflowofJeffreyfluidpastoninfiniteverticalporousplatewithconstantheatflux” in International Journal of MathematicalArchive. ISSN: 2229—5046, Vol 3, June, 2012, pgnos: 2240-2248.
- 6.K.Kavita,P.ShantanKumarpublishedapaperon“StanceofEngineeringcollegeteachersandstudents towards present day examination system” in International journal of research in Engineering and technology ,ISSN:2347-4599,I.F:3.9074,Vol:6,Iss:9,Sep-2018,PageNo:15-26.

International Conference Publications:

- 1.“Hall Effects on MHD Oscillatory Flow of a Micropolar Fluid over a Vertical Porous Plate, International Conference on Applications of fluid dynamics, sponsored by Fluid Mechanics Group Department of Mathematics, Faculty of Science University of Botswana Gaborone, S.V.University, Tirupathi on July21,22,23,2014.
2. “Impact of technology in teaching and learning Mathematics “,Innovations and sustainable development in science ,Management and technology(ISDSSMT -2019) , Dr.K.Kavita, N.Ashritha , NaiduYagna ,B.Akhila, DMI ST EUGENE University Zambia, Lusaka, South Africa,colobration KALASALINMGAM ACADEMY OF RESEARCH EDUCATION (KARE), Emerald,Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April -2019
3. EmpericalStudyonAIDS/HIVpatientsinIndia“,Innovationsandsustainabledevelopmentinscience ,Management and technology(ISDSSMT -2019) , Dr.K.Kavita, N.Ashritha , Naidu Yagna ,B.Akhila, DMI STEUGENEUniversityZambia,Lusaka,SouthAfrica,colobrationKALASALINMGAMACADEMYOF

RESEARCH EDUCATION (KARE), Emerald,Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April-2019

4. “The Analysis of Correlation between Mathematical Ability and Program ability in Engineering firstyear students “,Innovations and sustainable development in science ,Management and technology(ISDSSMT -2019) , Dr.K.Kavita, N.Ashritha , Naidu Yagna ,B.Akhila, DMI ST EUGENE University Zambia, Lusaka, South Africa,collobration KALASALINMGAM ACADEMY OF RESEARCH EDUCATION (KARE), Emerald,Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April -2019

5. “PresentDayExaminationSysteminEngineeringColleges“,Innovationsandsustainabledevelopmentin science,Managementandtechnology(ISDSSMT-2019),Dr.K.Kavita,N.Ashritha,NaiduYagna,B.Akhila, DMI ST EUGENE University Zambia, Lusaka, South Africa,collobration KALASALINMGAM ACADEMY OF RESEARCH EDUCATION (KARE), Emerald,Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April -2019

6. “Statistical technique for dengue for virus disease in human body “,Innovations and sustainable development in science ,Management and technology(ISDSSMT -2019) , Dr.K.Kavita, N.Ashritha , Naidu Yagna,B.Akhila,DMISTEUGENEUniversityZambia,Lusaka,SouthAfrica,collobration KALASALINMGAM ACADEMY OF RESEARCH EDUCATION (KARE), Emerald,Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April -2019

7. “Applications of Engineering mathematics related to Matrices” “,Innovations and sustainable development in science ,Management and technology(ISDSSMT -2019) , Dr.K.Kavita, N.Ashritha , Naidu Yagna ,B.Akhila, DMI ST EUGENE University Zambia, Lusaka, South Africa,collobration KALASALINMGAM ACADEMY OF RESEARCH EDUCATION (KARE), Emerald,Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April-2019

8. “Tools for enhancing technical education for professional development “,Innovations and sustainable development in science ,Management and technology(ISDSSMT -2019) , Dr.K.Kavita, N.Ashritha , Naidu Yagna ,B.Akhila, DMI ST EUGENE University Zambia, Lusaka, South Africa,collobration KALASALINMGAM ACADEMY OF RESEARCH EDUCATION (KARE), Emerald,Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April-2019

9. “Radial Vibrations in a fluid-loaded two layered proelastic cylindrical shell surrounded by a fluid “,Innovations and sustainable development in science ,Management and technology(ISDSSMT -2019) , Dr.K.Kavita, N.Ashritha , Naidu Yagna ,B.Akhila, DMI ST EUGENE University Zambia, Lusaka, South Africa,collobration KALASALINMGAM ACADEMY OF RESEARCH EDUCATION (KARE),

Emerald, Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April -2019

10.” Path integral on Engineering Mathematics“, Innovations and sustainable development in science ,Management and technology (ISDSSMT -2019) , Dr.K.Kavita, N.Ashritha , Naidu Yagna ,B.Akhila, DMI STEUGENE University Zambia, Lusaka, South Africa, collaboration KALASALINMGAMACADEMY OF RESEARCH EDUCATION (KARE), Emerald, Neelkant sarovour Premier ,DMI ST EUGENE University Zambia, Lusaka, South Africa , 8th April -2019

11.” Technology tools for teaching learning process”, International conference on Trending technologies in engineering education · Dr.K.Kavita, Dr.C.Nageswaranath, P.Shantan Kumar, with collaboration of seventh sense research group, Mangayarkarasi college of Engineering, Madurai, Mangayarkarasi college of Engineering, Madurai, 15 th March 2019.

National Journals:

1. K.kavitha, k.Ramakrishna Prasad & B.Aruna kumari Published a paper on “Influence of Heat Transfer on MHD oscillators flow of Jeffrey fluid in a channel” in Journal of Pelagiar Research Library Advances in Applied Sciences Research. ISSN: 0976—8610, Vol 3, April 4, 2012, pgnos: 2312-2325.

National Conference Publications:

- [1] “National Seminar on Recent Developments in Mathematics , Effects of a Magnetic field on the mixed convective flow of convective flow of second grade fluid in a vertical channel with permeable walls, **Sponsored** by APSCHE, S.V.University, Tirupathi, Nov-1, 2012, page 57
- [2] “National Seminar on Recent Developments in Mathematics and its Applications, Influence of Heat Transfer on MHD with Mixed Convective flow of Jeffrey fluid In a channel, **Sponsored by** National counsel for science & technology APCOSTDST, S.V.University Tirupathi, Nov- 20, 2014, page 21
- [3] “National Seminar on Recent Developments in Mathematics and its Applications, Effects of MHD and heat transfer on an oscillatory flow of Jeffrey fluid in Tube, **Sponsored by** National counsel for science & technology APCOSTDST, S.V.University Tirupathi, Nov-20, 2014, page 21
- [4] “National Seminar on Recent Developments in Mathematics and its Applications, Thermal effects on MHD stokes second problem for couple stress fluid through a porous medium, **Sponsored by** National counsel for science & technology APCOSTDST, S.V.University Tirupathi, Nov-20, 2014, page 20
- [5] ” Non -Parametric technique for dengue virus in human body”, “National Symposium on Materials in Healthcare” 6-8, September 2018 Organised and Sponsored by Gitam , BARC Hyderabad, Page-118.

FDP's Attended / Conducted:

1. National Conference on Number Theory , Fixed Point & their Applications, **Organized by**Osmania University , Hyderabad, Osmania University ,Hyderabad,30-31 August-2007.
2. One day National Workshop on Innovation in Teaching Methodology, **Sponsored by** New Horizon College, Bangalore, New Horizon College, Bangalore, 8th Sept2007
3. Two day Workshop on Effective Teaching Methodology, **Organized by** ISTE Chapter, Guru Nanak Engineering College. Guru Nanak Engineering College, Hyderabad, 3rd to 4th December2007.
4. XVI Congress of APSMS, CSIR, Ministry of Earth Sciences, **Organized by** Govt of India, New Delhi, NGRE, Hyd,December 8th to 10th ,2007.Workshop on Research Awareness Programs in mathematics/statistics/ informatics,**Sponsored by**JNTU, Hyderabad & C-DAC Hyderabad. JNTU, Hyderabad01/02/2009.
5. Vignan Institute of Technology and Aeronautical Engineering , **Organized by** Vignan Educational Institute, JNTU, Hyderabad 18/12/2009 to19/12/2009.
6. International Conference on Recent Advances in Fluid Mechanics, **Organized by** Osmania University (Stanley Engineering college, Hyderabad), Osmania University, Hyderabad 23/12/2010 to 24/12/2010.
7. TwodayWorkshoponMatlabTechniques,**Organizedby**OsmaniaUniversity,CFRD,Hyderabad, Osmania University, Hyderabad 27/12/2010 to28/12/2010.
8. Two Day National Workshop on Digital Learning Technologies. **Organized by** JNTU & C-DAC,Hyderabad, JNTU, Hyderabad 4/03/2011 to5/03/2011.
9. National Seminar On Recent Developments In Mathematics. **Organized by** S.V. University Department of Mathematics,Tirupathi(SponsoredAPSCHE).S.V.University, Tirupathi, 22/12/2011 to 23/12/2011.
10. One Day Seminar on Mathematical Modeling In Fluid Mechanics. **Organized by** Osmania University, Hyderabad, Osmania University, Hyderabad30/11/2011.
11. National Seminar on Recent development in Mathematics organized by S.V.University ,sponsored by APCOST ,Dec22-23,2011.Sv.University,Tirupati.
12. XXIICongress&NationalConferenceonRecentTrendsinApplicationsofMathematics.
Organized by APSMS & CSIR, Govt of India & APCOST, Govt of A.P. Anurag Group of Institutions, C.V.S.R. College of Engineering, 13th to 15th December 2013.**Publications**
13. National Conference on Developments in Mathematics by sponsored by APCOST , Hyd,29 th January2014,S.V.University,Tirupati.
14. Faculty Development Program Attitude Skill Knowledge sharing in Teaching. **Organized by** UGC,

MLRIT, Hyderabad. MLRIT, Hyderabad.25-06-2014 to26-06-2014.

15. International Conference on Applications of fluid Dynamics organized by S.V.University,July 23rd ,2014,S.V.U,Tirupathi.

16. Role of Communication skills inEfective teaching, **Organized by** UGC Sponsored summer school(R.C), HRDC,JNTU H on 08/06/2015 to27/06/2015.

17. Use of technologies for teaching & Learning of Engineering Mathematics **Organized by** JNTU H College of Enginneering JNTUH,Hyd sponsored by CASIO, JNTUH ,Hyd on 24 th & 25 th July2015.

18. Basic first Aid Training organized by RED Cross Society on 06/02/2016 at BVRIT HHyderabad.
19. Innovation Pedagogy for teaching and Learning Engineering Mathematics., **Organized by** Two day workshopIPTEM,CASIO, Dept of Mathematics,JNTUH college of Enginnering on 29 th & 30 thJune-2016
20. Certification Completion of Latex Training, Funded by National mission on Education throughICT, **Organized by by** MHRD, Govt of India.,IIT Bombay,20 th Sep-2016
21. Scientific Educational Practices, **Organized by by** VEDIC(Vishnu Educational Development & Innivation Center, VEDIC,Hyd on 2-4 Nov,2016
22. OneWeekFDPonOpenSourcesoftwarethroughspokentutorials,IItBombay.**Organizedbyby**IIT, Bombay, BVRIT Hyd college of Engineering for Women on 4 th to 10 th Nov,2016
23. Numerical Methods &Optimization techniques in Engineering Research., One WeekFDP, **Organized by by** CMR Engineering College on 14 th to 20 th December 2016
24. One week FDP on Data Science & Big data Analytics, **Organized by by** E & ICT Academy Institioe of technology, Warangal, BVRIT Hyd college of Engineering for Women on 6 th to 11 th March,2017
25. Data base Programming with SQL, **Organized by by** Oracle Academy, 20 thMarch,2017
26. Data based Design, **Organized by by** Oracle Academy, 20 thMarch,2017
27. Workshop on E-Lab in C-Programming on 6-7 Sept 2017 organized by VEDIC ,BVRIT H,Hyderabad.
28. Two Day Workshop On Engineering Mathematics and it Applications, **Organized by by** CVR College of Engineering,, December 8th - 9th 2017
29. FDP on Exploring Excellence in Education on10 th Feb -2018 organized by Dept of Management studies at Tirumala Engineeringcollege,Hyderabad.
30. ThreedaysworkshoponAdvancedResearchTraining,25-27April2018OrganizedbyVEDIC ,BVRIT H ,Hyderabad.
31. One Day workshop on Advanced Research & Design organized by (4 th contemporary Academic meet-CAM-2018)Venus International Foundation,Chennai ,July 7 th2018.

Professional Memberships:

1. Life Member in APSMS (Andhra Pradesh State MathematicalSociety)-
- 2.Life Member in ISCA(L32084)

3. Editorial & Reviewer board (ERB) , knowledge Publications i.e KPG Editor & Reviewer board- 5615 - 9264 -4649 - 12 – feb2019

4. IOSRD Membership , Editorial Member ship IOSRD (International organization of scientific research development - E201901035- 15 –Jan-2023.

Certifications

1. Completed Online Mentorship Course i.e NPTEL Mentorship **Course Certificate in “Engineering Mathematics -1**, IIT's ,12weeks,2019
2. Completed Online” NPTEL Course Certificate in “**Introduction to Research”** IIT's ,8 weeks2019
3. Completed online NPTEL Course Certificate in “**Engineering Mathematics -1**,12 weeks,IIT's,2019
4. Completed Online NPTEL Course Certificate in “**Road map for patent creations”**, IIT's 8Weeks,2019.
5. Completed Online NPTEL Course Certificate in “**Patent drafting for beginners** , IIT's ,4 Weeks,2019.
6. Completed Online COURSERA fromStanfordUniversity in “ Introduction to Mathematical thinking “;**STANFORD UNIVERSITY**, 8Weeks,2019
7. Completed Online **MOOC Course ”LIFE SKILLS for Engineers “Level –II form *Common wealth Education Media a centre for Asia*(CEMCA)-2018**
8. FOSSASIA conducted Juggad fest in INDIA attended Software solutions in Open Software,Oct-2018.
9. Completed Online certified Module course in “ **Successful research grant Applications - getting it right** ,12 th **Oct -2018** from**ELSEVIER**.
10. CompletedNPTELCoursecertificatein“**Outcomebasedpedagogyprincipleforeffectiveteaching” performed ELITE Grade** (04 Weeks)
11. Completed NPTEL Course certificate in “**Mathematical Modeling : Analysis & Applications”** (04Weeks)
12. Completed “**10 tips for writing a truly terrible review** “online certified Module course in December 2017 from **ELSEVIER**.
13. Completed onlinecertifiedModulecoursein“**10Reasonstoget-anduse-anORCIDiD”**from **ELSEVIER** , March 2018.
14. Completed online certified value added courses **SQL/PLSQ/ORACLE/9i/Data base design** from **ORACLE** ,2017
15. Completed online certified open source software through **spoken tutorials, IIT Bombay**
16. Certification Completion of **Latex Training**, Funded by National mission on Education throughICT, **Organized by MHRD, Govt of India., IIT Bombay,20 th Sep-2016**

17. Completed NPTEL Course Certificate in “**NUMERICAL LINEAR ALGEBRA** “ (12 Weeks Course)
18. Completed NPTEL Course Certificate in “**Multivariable calculus** “(12 Weeks Course)
19. Completed NPTEL Course Certificate in “ **Effective engineering teaching practice** “ **given ELITE Performance.** (04 Weeks Course)
20. Participated “**Role of Communication skills in Effective teaching**”, Conducted by UGC Sponsored summer school(R.C), HRDC,JNTU H on 08/06/2015 to 27/06/2015 and obtained grade ‘A’.

Any Other Achievements

1. My Autobiography was included in “**Asia who’s**(Asian Admirable achievers) who in the world “in 2018.
2. My Autobiography was included in “Famous India who’s who in the world “in 2018
3. **Ratified as Assistant Professor in April 2015 from JNTUH, Hyderabad**
4. Discharged duties as **COUNSELLOR, MENTOR** from 2005 to till now.
5. Received “ **OUT STANDING FACULTY IN MATHEMATICS** ” from VIFA-2018.
6. Received “ Academic Leadership Award “ from IARDO (International Association of Research & Development Organization) –Oct 2018
7. Reviewer for the International Journal of Scientific & Engineering Research (**IJSER**) from 2017
8. Reviewer for the **IMPRINT** Journals from 2018.
9. Reviewer for the **IJEEE** Journals from 2018 (**Ref: IJEEE – 1521908747**)
10. Reviewer for the **Reviewer board (ERB) , knowledge Publications:** i.e KPG Reviewer board. IDNo:(5615 -9264 -4649)
11. Reviewer for the **Transtellar Journal** from 2018.
12. Editorial member for the **International Journal of Arts Humanities and Social Sciences (IJAHSS)** (www.ijahss.com) from 2018.
13. Editorial member for the **International Journal of Excellence Innovation and development(IJEID)** (<http://www.ijeid.com>) from 2018.
14. Editorial member for the **(IOSRD-International organization of scientific research development), IOSRD** Editorial Member ship , 15 –Jan 2019 -2023, **E201901035**
15. Editorial member for the “**Editorial Board (ERB) , knowledge Publications** “, KPG Editor board, 12 – feb 2019 , 5615 -9264 -4649.